### The Star Modern Homes Nowadays Are Electrically Equipped; Is Yours? Vibrator A Perfect Electric

The H. I. Scharr Elec. Co. 711 13th St.

How It Aches!

shouldn't it when you strain it over the old-fashioned and

decidedly out of date ironing

board? This way was all right

when there was no other—it had to be accepted as the only way. But now, in the days of electrical wonders, there is no excuse whatever for breaking backs and wear-

ing out your health.

Of course, it aches! Why

**AUCTION SALE** 

Monday, April 12th, at 10:30 A. M.

Retiring From Electrical Fixture Business

put on sale Monday morning at 10:30 at Public

Auction. A chance that very rarely comes. It

will be to your advantage to come in and bid on

some of these fixtures. Each fixture will be sold

ADAM A. WESCHLER, Auctioneer

**GEORGE W. PAREZO & CO.** 

808 9th St. N. W.

NOTICE: We are not going out of business. We will continue to conduct an Electrical Supply house along with Wireless Apparatus.

Oh! my back!

'A beautiful display of lighting fixtures will be

### TEST COLORS BY CURRENT. '- a new electrical instrument the Electric Locomotive Replaces O'd Steam Engine ... ng effect of sunlight is standard-



The De Witt Clinton, early type locomotive, which operated between Albany and Schenectady, N. Y., in 1831. The entire length of this train was less than the present type of locomotive.



powerful type of electric passenger locomotives yet developed, which are being used in passenger servhee on the C., M. & St. P. railroad between Chicago

The new gearless electric locomotive, the most

### Longest Electrified Railroad Opened By American Engineers

What is generally acknowledged to be one of the greatest electrical engineering feats in American railroad annals was transmitted by the motor to the axis perfect coffee, but—if there is no brought to a conclusion after five years of constant planning through a chain.

Despite this progress, in 1883 Propliances, they lose their effectiveness. and at an expenditure of \$20,000,000, with the opening on fessor Bunson in his much-quoted ad- and the housewife loses interest in March 6 of the coast division of the Chicago, Milwaukee, and dress at Indianapolis, declared electhem. St. Paul railway between Othello, Wash., and Seattle.

years later locomotives were used

neither locomotive proved satisfac-

In 1814, George Stephenson built

followed by several others, the most important being in the town of

Quincy, Mass., a stretch three miles long, and one at Mauch Chunk, Pa.,

nine miles long. Both were built in

First Railway In 1830.

with a purpose from the beginning, was constructed in 1830, It was

known as the South Carolina railroad,

The Baltimore and Ohio, in 1828, com-

Baltimore to Ellicott, Md.

pleted a road fifteen miles long from

It was about this time a company

was organized for the purpose of

the Mohawk and Hudson railroad.

length of this train was less than the

it was evident to men of capital and

of inventive capacity that it pointed

the way to a great development of

railroad construction. Therefore, an-

other company was organized to build

and operate a road between Schenec-tady and Utica. This road opened

the way to travel by steam from Al-

bany to Utica, with a change at

But with all these engines they

were compelled to take the forward

and backward motion of the engine

and convert it, transform it, into ro-

tating motion. For years this handi-cap existed. Something better was

In the same year that Thomas A.

chnectady.

present type of Pacific locomotives. Although this railroad was crude

The first railway in America, built

an hour up a slight grade.

bringing the total mileage up to about wagons containing ten tons of coal 300 miles, or nearly the distance from at a rate of five miles an hour. Eight New York to Chicago. The complete electrification now extends from Har-lowtown, Mont., to the Pacific Coast, Middletown colliers and Leeds, but crossing on its way two mountain ranges, the Rockies and Cascades, with the exception of about 200 miles still to be electrified between Avery,

Idaho, and Othello.

This vast electric transportation system in its completed form operates ixty-one electric locomitives, including passenger, freight, and switching These locomotives have resavings of 300,000 tons of coal and 10,000,000 gallons of oil, for the railroad obtains its motive power fholly from the natural water resources of he surrounding country.

Electric rolling stock and equipment for the new division consists primarly of five 3,000-volt direct current locomotives, one of which recently astonished the railroad world by winning a tug of war from two steam engines at the works of the General Electric Company, in Erie, Pa. These locomotives, the most powerful type of electric passenger locomotives yet developed, are being used in passenger service to haul the "Olympian" and "Columbian," the crack C., M. and building a railroad between Albany St. P. flyers, between Chicago and and Schenectady, N. Y. It was named

Since the first locomotive made by The first train was operated on Sep man feebly rolled along over wooden tember 9, 1831, and the engine was wheels at a speed of not more than named five miles an hour, perhaps no single weighed nearly 7,000 pounds and was event in history has held more in-terest than the accomplishment of Behind it were three stage coach the electric locomotive, made at the bodies, which constituted the cars of Eric plant of the General Electric the original train. The entire

Company.
Watt Steam Engine.

When James Watt invented the steam engine in 1763, its adoption made England the industrial giant of the world for many generations. But forward and backward, up and down. In 1804, Richard Trevithick put a

Edison perfected the electric lamp the United States, Siemens and Halske exhibited at the Berlin industrial exposition the first electric railway in appliances may be easily and quickthe world—1879. As an illustration of the remarkable versatility of Mr. Edison, he constructed and put into onto a chair and unscrew a lamp from operation his first electric locomotive a fixture every time one wishes to the following year.

world. This same year, Siemens operated cars at the Paris exposition with a brand-new electric cleaner that has

trie railways "practically toys" and "too expensive to be practical." But The United States thus becomes the possessor of the longest electrified railroad in the world—approximately 700 miles of main line trackage, or the distance between New York and Cleveland, Ohio, and to this must be added about 200 miles of extra track. bringing the total mileage up to about separations of the longest electrified and backward motion of the engine to the rotating engine. This step produced the first railway in Cleveland, Ohio. They obstance between New York and Cleveland, Ohio, and to this must be added about 200 miles of extra track. bringing the total mileage up to about the forward and backward motion of the engine to the rotating engine. This step produced the first railway in Cleveland, Ohio. They obstance between New York and Tydvil railway in Wales, it hauled wagons containing ten long of containing the lighting system. They do away with dangling conds that are so unsightly and always in the way. A liberal supply cars were the first operated by motors of wall, baseboard, and floor outlets lained their electricity from an undermost satisfactory service from laborground circuit placed between the saving appliances, tracks, much as New York city's sur- A small wheele tracks, much as New York city's sur-face cars are operated today. In the with a plug cluster screwed on the

his first engine, which operated on American enterprise took up elec-the Killingworth railway, hauling tric traction all over the country, and

The two earliest applications in the uning in the streets of Denver, in Feb. en to dining room, and the constant rules States were short trainways in rules, 1888, a street railway eleven attendance of a maid. The food can Beacon street, Boston, built in 1807, miles in length was installed at Richwith wooden rails, and a trainway, mond, Va., by the Sprague Railway types. These locemotives have re-leased for service elsewhere no less than 162 steam engines at an annual than 162 steam engines at an annual county. Pennsylvania. These were three-horsepower steam engine, sup-

Super-Electric Washing Machine

EQUAL TO THE BEST

WORTHY OF YOUR INVESTIGATION BEFORE YOU BUY

FREE DEMONSTRATION ON REQUEST

## Webster

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The Average Home in 4 to 5 Days

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We have proven this to thousands of satisfied home owners in Washington.

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THE ELECTRO-SERVICE SHOP J. E. TAYLOR & COMPANY, Inc.

Lighting Fixtures, Edison Lamps, Vacuum Cleaners and Everything Electrical.

Out of this pioneer work has come in less than a generation the lux-urious and standardized electric traction of today-chair cars, dining cars and sleepers—all electrically driven Even the stepless car, electrically warmed, and doors opened and closed by the mere pushing of a button, is typical of the electric age.

lectricity in the home and the most comfort from electrical appliances will depend entirely upon having suf-ficient service outlets, so the useful conected when needed. It is a nuisance to have to climb

make connection for current, There In 1881, electric cars were used in should be facilities provided for the Germany, this being the first regular easy operation of all appliances inde-commercial electric railway in the pendent of the lighting system. One may be the proud possessor of

electric current supplied from an high suction and a motive-driven Convenient service outlets, provide

handy places to "plug in" appliances

same year the overhead trolley was under side of the upper tray is a great first introduced. This was soon a two-mile line from Baltimore to Hampden. meal at the main table. The small Electric Traction Spreads.

American enterprise took up eleclator, toaster, or the grill.

Thus the pretty art table cookery as early as 1887 these cars were run- may be practiced by the dainty host-

### JACK-OF-ALL-TRADES

The small home motor is the most willing worker you ever saw. It is never tired and never demands a vachine, it is ready to do other tasks

First Aid to

Tired Housekeepers

When you feel like this

woman looks, drop your broom, call Columbia 9610

"Send an Apex Electric

Cleaner out to my

house."

And after you have been

fully satisfied that the

cleaner will do all you hoped, we will make such

easy terms that you will

wonder how you could af-

Remember—Phone Colum-

bia 9610 or a postal to

**Arthur Lowe** 

Electrical Contractor and Dealer

3438 14th St. N. W.

ford to be without it.

on the phone and say,

We'll do just that.

plying sufficient current to operate thirty cars.

From that time, Frank J. Sprague and his associates proceeded to convince street railway managers that electric power could be economically substituted for animal, steam and cable traction.

Out of this pioneer work has come quicker and better than by any other method. This attachment includes funnel arrangement that pemits of to be added a drop at a time and thus the cream whipepr becomes an ideal salad dressing mixer for the making of mayonnaise sauce,

Then there is a polisher, a grinder and a fan attachment that instantly changes the home motor into a strong fan, sending cooling breezes through the room on warm days.



'I've made that one of the most attractive homes in town"

because it has just been wired for electric service. Electric light brings good cheer. It makes happier, more com fortable homes. NOW—is the most opportune time to have your house wired. Let us show you how little it will cost under our easy pay-

we send a representative

WALKER & WINKLE ELECTRICAL CONTRACTORS. 1102 14th St. Phone Franklin 6855



### Price-cutting often results in poor workmanship

A good workman is worthy of his hire. An electrician is generally paid what he earns. Some earn \$2.00 a day, some \$8.00. The quality of their work shows plainly why there is a difference in their pay.

Then, too, a \$8.00 man may do \$2.00 work if hurried too much.

If an inexperienced contractor figures his labor cost too low—as is often the case—he has one or two alternatives: He may employ cheap workmen or he may attempt to rush good workmen. In either case the work must suffer. You are the loser.

Again we say, employ an established and reliable electrical contractor, one who understands from long experience how to estimate costs of labor and material. He will save you money in the end.

Arcade Electric .... Arcade Market, (Ernest Augerman, Mgr.) Col. 5012 Franklin 4582 Capital Electric Co...1525 14th St., F. L. Clarke ...... 1242 Wisconsin Ave., West 2419 Davis Electric Co.... 1009 H St., Franklin 5040 Howard P. Foley Co. . 1413 G St., Main 1135 E. C. Gramm......1408 Eye St., Franklin 5016 Home Electric Shop. . 2203 14th St., (J. D. Campbell, Mgr.) North 4226 Arthur Lowe......3438 14th St. N. W. Col. 9610 Modern Electric Shop. 1411 U St., North 2153 Geo. G. Rabbitt . . . . 805 9th St., (Successor to John R. Galloway) Main 280 Main 1286 H. I. Scharr Elec. Co ... 711 13th St., Main 7103 J. E. Tavlor & Co . . . 1324 Eye St.,

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ROYAL AND OHIO VACUUM CLEANERS
We Specia ize in Home Laundry Equipment

you are paying for it anyway without getting the benefit of it. You can buy this most ef-

Come to our store and let us show you how you can do a whole day's ironing in less than two hours, or call us up and arrange for

a demonstration without obligation, in your home.

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And Save the Aches

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you put off buying a time and money saving thing, ficient HORTON IRONER on

How much better is this

way! And it is an economy

plan, too. You know that if



THE HOOVER crawls along; digs out the deep-down, hidden. harmful grit; snatches up every vestige of clinging litter; swallows all the surface dirt.

Straightens crushed nap, revives colorings, and is guaranteed to prolong the life of all rugs and carpets, including finest ori-

It's the largest selling electric cleaner in the world. Prices begin \$52.50

**EASY TERMS** 

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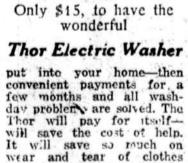


For 2, 4, 6, and 7 persons in Upright, Suit Case, and Running Board

From \$25 up

Universal Vacuum Bottles Various styles in halfpint, pint and quart.\$2.75

Also, Carafes, Food Jars and other Universal Vacuum Specialties.



\$15, Madam,

for it cannot be considered an expense. just push a Lutton and the Thor goes to work and washes the clothes cleaner

that the payments you make

than ever washed by hand. You are cordially invited to call so the demonstrator may explain to you

the benefits derived from the use of either of these electrical appliances.

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So You're the

"Dirtless-Workman" Come Right in

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